

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I hereby certify that this correspondence and the document referred to as attached therein are being transmitted via facsimile to 703-872-9306 on the date indicated below and directed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: March 2, 2005By: Cheryl L. Powell

Cheryl L. Powell

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and any continuations or divisionals thereof. I hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and any continuations or divisionals thereof and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien Chou
Simon Lu

Registration Number: 41,672
Registration Number: 51,974

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Please change the correspondence address for all the applications listed below to:

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All telephone calls for all applications listed below should be addressed to Steven E. Koffs at (215) 979-1250.

CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

| Serial No. | Filing Date | Assignment Information |
|------------|-------------|---|
| 09/571,373 | 05/15/2000 | Assignment recorded in the Patent and Trademark Office at Reel 010012, Frame 0451 |
| 09/609,830 | 03/19/2001 | Assignment recorded in the Patent and Trademark Office at Reel 011874, Frame 0521 |
| 09/934,549 | 08/23/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012131, Frame 0136 |
| 09/989,803 | 11/20/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012319, Frame 0654 |
| 10/038,389 | 01/03/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012510, Frame 0398 |
| 10/055,095 | 01/23/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012566, Frame 0922 |
| 10/176,857 | 06/21/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013094, Frame 0776 |
| 10/207,546 | 07/29/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013145, Frame 0588 |
| 10/209,148 | 07/30/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013156, Frame 0977 |
| 10/253,293 | 09/24/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013328, Frame 0051 |

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|------------|------------|---|
| 10/307,875 | 12/02/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013547, Frame 0671 |
| 10/671,293 | 09/25/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014554, Frame 0021 |
| 10/672,394 | 09/26/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014554, Frame 0213 |
| 10/682,052 | 10/09/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012792, Frame 0387 |
| 10/696,432 | 10/29/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012510, Frame 0398 |
| 10/706,495 | 11/12/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012510, Frame 0398 |
| 10/726,104 | 12/02/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013360, Frame 0288 |
| 10/767,276 | 01/29/2004 | Assignment recorded in the Patent and Trademark Office at Reel 014944, Frame 0691 |

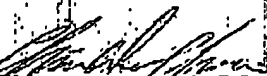
The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 11/29/2004

By:



Name: Chien-Wei Chou

Title: Director, Intellectual Property Division